

100% Pass Quiz 2026 Valid CWNP CWISA-103: Certified Wireless IoT Solutions Administrator(2025 Edition) Exam Question



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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Radio Frequency Communications: This section of the exam measures the skills of RF Engineers and focuses on the fundamental principles of radio frequency communications. It involves explaining RF wave characteristics such as frequency, wavelength, and amplitude, and understanding behaviors like amplification, attenuation, and free space path loss. The domain covers describing modulation techniques including ASK, FSK, PSK, and QAM, and explaining the capabilities of RF components like radios, antennas, and cabling. It also includes describing the use and capabilities of different RF bands in terms of communication ranges and power levels.
Topic 2	<ul style="list-style-type: none">Supporting Wireless Solutions: This section of the exam measures the skills of Wireless Support Engineers and focuses on the ongoing administration and support of wireless solutions across various vertical markets. It involves administering solutions in healthcare, industrial, smart cities, retail, and other environments while troubleshooting common problems including interference, configuration issues, and hardware malfunctions. The domain includes determining the best use of scripting and programming solutions for IoT implementations, understanding data structures and APIs, and comprehending networking and security protocols. It also covers understanding application architectures and their impact on wireless solutions, including single-tier and multi-tier architectures, database systems, and application servers.
Topic 3	<ul style="list-style-type: none">Planning Wireless Solutions: This section of the exam measures the skills of IoT Solutions Architects and encompasses the planning phase of wireless IoT solutions. It involves identifying system requirements, including use cases, capacity needs, security requirements, and integration needs, while considering constraints such as budgetary, technical, and regulatory limitations. The domain includes selecting appropriate wireless solutions based on requirements, planning for technical needs, including LANWAN networking and frequency coordination, and understanding the capabilities of common wireless IoT solutions like Bluetooth, Zigbee, and LoRaWAN, along with location services and methods.
Topic 4	<ul style="list-style-type: none">Implementing Wireless Solutions: This section of the exam measures the skills of Wireless Implementation Specialists and covers the practical implementation of wireless IoT solutions. It involves understanding key issues related to automation, integration, monitoring, and management, and using best practices in implementation, including pilot testing, configuration, installation, and documentation. The domain includes validating implementations through testing and troubleshooting, performing installation procedures including equipment mounting and connectivity configuration, and implementing security solutions covering authentication, authorization, and encryption. It also encompasses knowledge transfer practices including staff training and solution documentation.

Topic 5	<ul style="list-style-type: none"> Wireless Technologies: This section of the exam measures the skills of Wireless Architects and covers foundational knowledge of wireless IoT technologies and their applications. It includes maintaining awareness of emerging technologies through research, understanding common applications and their associated frequencies and protocols, and familiarity with key standards organizations like IEEE, IETF, and Wi-Fi Alliance. The domain also encompasses defining various wireless network types including WLAN, WPAN, and IoT implementations across industries, along with understanding the hardware and software components of IoT devices and gateways, covering processors, memory, radios, sensors, and operating systems.
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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q49-Q54):

NEW QUESTION # 49

Which one of the following items has driven large serving 5- to 18-year-old students?

- A. Cloud-based applications
- B. Online torrent sites
- C. Wearable body sensors
- D. Streaming music

Answer: A

Explanation:

Cloud-based applications drive bandwidth usage: Applications like Google Suite, Microsoft 365, and video conferencing (Zoom, Teams) are commonly used in educational settings. These rely on cloud servers, requiring significant downloads and uploads. Shift towards online learning: More schools are utilizing online learning platforms and resources, further increasing their dependence on cloud-based solutions. Streaming, torrents, wearables less impactful: Streaming music and torrent sites can contribute, but their impact is generally less significant. Wearables in education are still niche despite their potential.

NEW QUESTION # 50

Key performance indicators and business requirements are most relevant to what operational activity for an existing wireless IoT solution?

- A. Monitoring
- B. Upgrading
- C. Implementation
- D. Removal

Answer: A

Explanation:

* KPI alignment: Key Performance Indicators (KPIs) define success metrics for the wireless IoT solution (e.g., uptime, device responsiveness, data accuracy). Continuous monitoring tracks performance against these KPIs.

* Meeting Business Needs: Monitoring ensures the solution delivers the intended value. Are response times fast enough? Are business processes supported effectively?

* Proactive maintenance: Monitoring can reveal performance issues before they become critical failures, allowing for proactive fixes.

* Optimization: Monitoring data over time helps identify areas for fine-tuning the solution to further align with business requirements.

References

- * Wireless IoT monitoring tools: Vendor documentation or articles on specific tools and the KPIs they can track.
- * ITIL (Information Technology Infrastructure Library): Frameworks emphasizing monitoring and continuous improvement.

NEW QUESTION # 51

What is defined as the weakening of signal amplitude as the signal passes through a medium?

- A. Attenuation
- B. Reflection
- C. Diffraction
- D. Scattering

Answer: A

Explanation:

* Attenuation: Describes the progressive loss of signal strength as it travels through a medium (like air, cables, walls). It's caused by factors like absorption, distance, and obstacles.

* Other Phenomena:

- * Diffraction: Bending of waves around obstacles.
- * Reflection: Waves bouncing off surfaces.
- * Scattering: Waves dispersing in multiple directions.

References

- * Attenuation: <https://en.wikipedia.org/wiki/Attenuation>

NEW QUESTION # 52

What is a fundamental structural feature of JSON? (Choose the single best answer.)

- A. It is an encrypted data structure optimized for secure applications
- B. It is a data structure stored in MySQL databases for configuration management
- C. It is a compressed data structure optimized for low bandwidth applications
- D. It is a plaintext data structure that consists of free-form Key:Value pairs

Answer: D

Explanation:

* JSON Fundamentals: JSON (JavaScript Object Notation) is a text-based format for representing data in a structured, yet flexible way. Its key features are:

- * Key-Value Pairs: Information is organized as "key":"value" pairs, making it human-readable.
- * Plaintext: JSON is not encrypted, ensuring easy parsing across different systems.
- * JSON vs. Other Options
- * Not Encrypted: Security must be handled at a higher layer if needed.
- * Not Optimized for Databases: While JSON can be stored in databases, it's designed for data exchange, not database structure.
- * Not Inherently Compressed: Compression can be used with JSON, but it's not a core feature.

References:

JSON Introduction: Clear definitions and examples of its syntax. (e.g., <https://www.json.org/json-en.html>) JSON Data Structures: Explanations of how arrays and nested objects are handled within JSON.

NEW QUESTION # 53

What organization maintains and publishes the 802.15.4 Standard?

- A. IETF
- B. Zigbee Alliance
- C. Bluetooth SIG
- D. IEEE

Answer: D

Explanation:

* IEEE 802.15.4: The IEEE 802.15.4 standard is a fundamental specification for low-rate wireless personal area networks (LR-WPANs). It serves as the basis for many wireless IoT protocols.

* IEEE's Role: The Institute of Electrical and Electronics Engineers (IEEE) is the organization responsible for creating, maintaining, and publishing the 802.15.4 standard.

References

* IEEE 802.15.4 Standard: https://standards.ieee.org/standard/802_15_4-2020.html

* IEEE Website: <https://www.ieee.org/>

NEW QUESTION # 54

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